Apache AKKA Training Topics 50-	60
hrs module	
Introduction of AKKA	 What is Akka History or Akka Requirements of Akka Understanding the Akka and Scala Community Terminology Use Cases of Akka
Download, Installation and Configuration	AKKA
AKKA ACTORS	 Actors Actor System Actor Reference Actor Communication Actor Lifecycle Starting ,stopping & Killing Actors Shutting down the Actor System Actor Monitoring Looking up Actors Example
Spark with Cassandra	Example of spark streaming with Cassandra
Akka & Cassandra	 Building Akka Application for Twitter Data using Cassandra -Writing to Cassandra -Reading From Cassandra -Connecting to Cassandra -Scanning Tweets -Testing TweetScannerActor
Akka & Spark	Example discussion for Spark Streaming with Akka
Typed Actor	 Typed Actors in Java Typed Actors in Scala
Fault Tolerance	One for One Strategy One for All Strategy

Dispatcher	Default dispatcher
Dispatcher	Looking up a Dispatcher
	3. Setting the dispatcher for an Actor
	4. Types of dispatchers
	5. More dispatcher configuration examples
MailBox	Mailboxes
Widing 6.	Mailbox Selection
	Requiring a Message Queue Type for an
	Actor
	Requiring a Message Queue Type for a
	Dispatcher
	5. How the Mailbox Type is Selected
	6. Default Mailbox
	7. Builtin Mailbox Implementations
	8. Which Configuration is passed to the
	Mailbox Type
	9. Mailbox configuration examples
	10. Creating your own Mailbox type
Routing	1. A Simple Router
	2. A Router Actor
	3. Router usage
	4. Dynamically Resizable Pool
	5. How Routing is Designed within Akka
	6. Custom Router
	7. Configuring Dispatchers
SM (Finite State Machine)	1. A Simple Example
	2. The FSM Trait and Object
	3. Monitoring Transitions
	4. External Monitoring
	5. Transforming State
	6. Termination from Outside
	7. Testing and Debugging Finite State
	Machines
	8. Event Tracing
	9. Rolling Event Log
	10. Examples
Persistence	1. Dependencies
	2. Architecture
	3. Event sourcing
	4. Identifiers
	5. Recovery
	6. Recovery customization
	7. Recovery status
	8. Nested persist calls
	9. Failures
	10. Atomic writes
	11. Batch writes
	12. Message deletion

	10.5 1
	13. Persistence status handling
	14. Safely shutting down persistent actors
	15. Replay Filter
	16. At-Least-Once Delivery
	17. Event Adapters
	18. Persistent FSM with example
	19. Storage plugins
	20. Pre-packaged plugins
	21. Testing
	22. Multiple persistence plugin
	configurations
	23. Persistence - Schema Evolution
	24. Picking the right serialization format
Persistence Query	1. Dependencies
	2. Read Journals
	Predefined queries
	4. Performance and denormalization
	5. Query plugins
Testing	Testing Actor Systems
	2. Asynchronous Testing: TestKit
	3. Built-In Assertions
	4. Expecting Log Messages
	Timing Assertions
	6. Using Multiple Probe Actors
	Replying to Messages Received by Probes
	8. Forwarding Messages Received by Probes
	Caution about Timing Assertions
	10. Testing parent-child relationships
	11. Configuration TestKit
	12. Synchronous Testing: TestActorRef
	13. Obtaining a Reference to an Actor
	14. Testing Finite State Machines
	15. Testing the Actor's Behavior
Configuration	1. Configuration
Comparation	Cluster Info Logging
	3. Cluster Dispatcher
	4. Cluster Singleton
	5. Distributed Publish Subscribe in Cluster
	6. Cluster Client
	7. Cluster Sharding
	8. Cluster Metrics Extension
	9. Distributed Data Using the Replicator
	10. Consistency
	11. Subscribe
	12. Data Types
Remoting	1. Remoting
nemoung	I. Nemoung

	Preparing your ActorSystem for
	Remoting
	3. Types of Remote Interaction
	4. Looking up Remote Actors
	5. Creating Actors Remotely
	6. Programmatic Remote Deployment
	7. Remote deployment whitelist
	· ·
	8. Lifecycle and Failure Recovery Model
	9. Watching Remote Actors
Serialization	1. Usage
	2. Customization
	A Word About Java Serialization
	4. Serialization compatibility
	5. External Akka Serializers
1/0	1. Introduction
', 5	2. Terminology, Concepts
TCD	3. Architecture in-depth
TCP	1. Using TCP
	2. Connecting
	3. Accepting connections
	4. Closing connections
	5. Writing to a connection
	6. Throttling Reads and Writes
	7. ACK-Based Write Back-Pressure
	8. NACK-Based Write Back-Pressure with
	Suspending
LIDD	9. Read Back-Pressure with Pull Mode
UDP	1. Using UDP
	2. Unconnected UDP
	3. Connected UDP
	4. UDP Multicast
Camel	1. Introduction
	2. Consumer Actors
	3. Producer Actors
	4. Asynchronous routing
	5. Custom Camel routes
	6. Examples
	7. Configuration
	8. Additional Resources
Multi JVM Testing	1. Setup
	2. Running tests
	3. Creating application tests
	4. Changing Defaults
	5. Configuration of the JVM instances
	6. ScalaTest
	7. Multi Node Additions
Streams	1. Introduction

	2. Quick Start Guide
	Design Principles behind Akka Streams
	4. Basics and working with Flows
	5. Working with Graphs
	6. Modularity, Composition and Hierarchy
	7. Buffers and working with rate
	8. Dynamic stream handling
	9. Custom stream processing
	10. Integration
	11. Error Handling
	12. Working with streaming IO
	13. Pipelining and Parallelism
	14. Testing streams
	1. Futures
Futures and Agents	2. Agents
Utilities	1. Event Bus
	2. Logging
	3. Scheduler
	4. Duration
	5. Circuit Breaker
	6. Akka Extensions